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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/705,566	11/11/2003	Hans-Jurgen Wachter	Heraeus 412-WCG	4253	
	7590 01/17/2007 AUGHLIN & MARCU		EXAMINER		
875 THIRD AVENUE 18TH FLOOR NEW YORK, NY 10022			KESSLER, CHRISTOPHER S		
			ART UNIT	PAPER NUMBER	
			1742		
SHORTENED STATUTORY	Y PERIOD OF RESPONSE	MAIL DATE	DELIVER	DELIVERY MODE	
3 MON	NTHS	01/17/2007	PAF	PAPER	

Please find below and/or attached an Office communication concerning this application or proceeding.

If NO period for reply is specified above, the maximum statutory period will apply and will expire 6 MONTHS from the mailing date of this communication.

			V			
	Application No.	Applicant(s)				
	10/705,566	WACHTER ET AL.				
Office Action Summary	Examiner	Art Unit	-			
	Christopher Kessler	1742				
The MAILING DATE of this communication Period for Reply	n appears on the cover sheet wi	th the correspondence address				
A SHORTENED STATUTORY PERIOD FOR RI WHICHEVER IS LONGER, FROM THE MAILIN - Extensions of time may be available under the provisions of 37 CF after SIX (6) MONTHS from the mailing date of this communication. If NO period for reply is specified above, the maximum statutory provided to reply within the set or extended period for reply will, by some any reply received by the Office later than three months after the rearned patent term adjustment. See 37 CFR 1.704(b).	G DATE OF THIS COMMUNIC FR 1.136(a). In no event, however, may a ron. eriod will apply and will expire SIX (6) MON statute, cause the application to become AB	CATION. eply be timely filed THS from the mailing date of this communication (ANDONED (35 U.S.C. § 133).				
Status						
1) Responsive to communication(s) filed on 2	22 December 2006.	•				
2a) ☐ This action is FINAL . 2b) ☒	This action is non-final.					
3) Since this application is in condition for all	☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is					
closed in accordance with the practice und	der <i>Ex par</i> te Q <i>uayl</i> e, 1935 C.D	. 11, 453 O.G. 213.				
Disposition of Claims						
4)⊠ Claim(s) <u>1-14</u> is/are pending in the applica	ition.					
4a) Of the above claim(s) is/are with						
5) Claim(s) is/are allowed.						
6)⊠ Claim(s) <u>1-7 and 10-14</u> is/are rejected.						
7) Claim(s) 8 and 9 is/are objected to.						
8) Claim(s) are subject to restriction a	nd/or election requirement.					
Application Papers						
9)☐ The specification is objected to by the Exar	miner.					
10) ☐ The drawing(s) filed on is/are: a) ☐	accepted or b) ☐ objected to t	by the Examiner.				
Applicant may not request that any objection to	the drawing(s) be held in abeyan	ce. See 37 CFR 1.85(a).				
Replacement drawing sheet(s) including the co			I).			
11) ☐ The oath or declaration is objected to by the	e Examiner. Note the attached	Office Action or form PTO-152.				
Priority under 35 U.S.C. § 119	•					
12)☐ Acknowledgment is made of a claim for fore a)☐ All b)☐ Some * c)☐ None of:	eign priority under 35 U.S.C. §	119(a)-(d) or (f).				
1. Certified copies of the priority docum	nents have been received.					
2. Certified copies of the priority docum	•					
3. Copies of the certified copies of the		received in this National Stage				
application from the International Bu						
* See the attached detailed Office action for a	list of the certified copies not i	received.				
Attachment(s)						
1) Notice of References Cited (PTO-892)		ummary (PTO-413)				
 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO/SB/08))/Mail Date formal Patent Application				
Paper No(s)/Mail Date	6) Other:					

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DETAILED ACTION

Continued Examination Under 37 CFR 1.114

1. A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on 22 December 2006 has been entered.

Claim Objections

2. Claims 8 and 9 are objected to under 37 CFR 1.75(c) as being in improper form because a multiple dependent claim *should refer to other claims in the alternative only*. See MPEP § 608.01(n). Accordingly, the claims have not been further treated on the merits.

Claim Rejections - 35 USC § 103

- 3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 4. Claims 1-3, 5-7, 10, 12 and 13 are rejected under 35 U.S.C. 103(a) as being unpatentable over U.S. patent 6,767,360 issued to Alt et al. (hereinafter "Alt").

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Regarding claim 1, Alt discloses the invention substantially as claimed. Alt discloses a niobium alloy for a medical device comprising preferably less than 1% zirconium, remainder niobium (see col. 4, lines 25-50). The compositional range significantly overlaps the range claimed by applicant, thus establishing a prima facie case of obviousness for that range (see MPEP §2144.05). It would have been obvious to one of ordinary skill in the art to have selected the claimed compositional range because Alt teaches the same utility over the entire range.

Regarding claim 2, Alt is applied to the claim as stated above.

Regarding claim 3, Alt is applied to the claim as stated above.

Regarding claim 5, Alt discloses wherein the medical device is a stent (see abstract, for example), meeting the limitation of being intra-cavernous.

Regarding claim 6, Alt discloses wherein the medical device is a stent (see abstract, for example), meeting the limitation of being an intravascular implant

Regarding claim 7, Alt discloses wherein the medical device is a stent (see abstract, for example).

Regarding claim 10, Alt discloses wherein an oxidation process passivates the stent (see col. 8, lines 16-44, for example).

Regarding claim 12, Alt discloses wherein the stent is sintered (se col. 6, lines 31-47, for example).

Regarding claim 13, Alt discloses wherein the stent is coated with a layer of niobium oxide (see col. 8, lines 16-44, for example).

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5. Claims 11 and 14 are rejected under 35 U.S.C. 103(a) as being unpatentable over Alt as applied to claims 1-3 above, and further in view of U.S. Patent 6,387,121 issued to Alt (hereinafter "Alt '121").

Regarding claim 11, Alt does not disclose wherein the surface of the metal alloy is coated by iridium oxide by vapor deposition.

Alt '121 discloses a coated stent for vascular and endoluminal applications. Alt '121 clearly teaches that a layer of iridium oxide is coated onto the stent (see SUMMARY OF THE INVENTION, for example). It would have been obvious to one of ordinary skill in the art at the time of invention to alter the invention of Alt by coating the stent with iridium oxide, as taught by Alt '121 (cited above), in order to provide a means to deliver drugs to preclude thrombosis, as taught by Alt '121 (see SUMMARY OF THE INVENTION, for example).

Regarding claim 14, Alt does not disclose wherein the surface of the metal alloy is coated with stem cells and or a bioactive substance.

Alt '121 teaches that a stent is coated with iridium oxide to act as a carrier for beneficial drugs (see SUMMARY OF THE INVENTION, for example). It would have been obvious to one of ordinary skill in the art at time of invention to alter the invention of Alt by coating the stent with a beneficial drug, as taught by Alt '121 (cited above), in order to preclude occlusion from restenosis or thrombosis (see SUMMARY OF THE INVENTION).

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6. Claims 1, 2, 3 and 4 are rejected under 35 U.S.C. 103(a) as being unpatentable over U.S. Patent 6,845,259 issued to Pacetti et al. (hereinafter "Pacetti"), in view of Alt.

Regarding claim 1, Pacetti teaches that a guide wire is made from a niobium alloy in order to allow the guide wire to appear in MRI (see SUMMARY OF THE INVENTION, for example). Pacetti does not disclose wherein the alloy is a niobium/zirconium alloy.

Alt discloses a niobium alloy for a medical device comprising preferably less than 1% zirconium, remainder niobium (see col. 4, lines 25-50). The compositional range significantly overlaps the ranges claimed by applicant, thus establishing a prima facie case of obviousness for that range (see MPEP §2144.05). It would have been obvious to one of ordinary skill in the art to have selected the claimed compositional range because Alt teaches the same utility over the entire range. Alt further teaches a balloon angioplasty procedure, and it is well known in the art to install a stent *in vivo* through use of a guide wire during a balloon angioplasty (see col. 1, lines 32-51, for example).

It would have been obvious to one of ordinary skill in the art at time of invention to alter the invention of Pacetti by using the specific niobium alloy disclosed in Alt (cited above), in order to make a guide wire that would not distort the magnetic resonance field, as taught by Alt (see col. 2, lines 30-50).

Regarding claim 2, Pacetti and Alt are applied to the claim as stated above.

Regarding claim 3, Pacetti and Alt are applied to the claim as stated above.

Regarding claim 4, Pacetti and Alt are applied to the claim as stated above.

Response to Arguments

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Applicant's arguments filed 22 December have been fully considered but they are not persuasive. Applicants have stated that the invention was made prior to the cited prior art, but there is no documentation to prove these statements. The rejections based on the Alt reference are in effect.

Conclusion

- 7. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. 6,790,228.
- 8. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Christopher Kessler whose telephone number is (571) 272-6510. The examiner can normally be reached on Mon-Fri, 9-5.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Roy King can be reached on (571) 272-1244. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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